



State of Utah

Department of
Natural Resources

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Oil, Gas & Mining

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September 15, 2004

CERTIFIED RETURN RECEIPT
7099 3400 0016 8896 0648

Michael Pauletto
I & P Investments
10517 Northeast 50th Avenue
Vancouver, Washington 98686

Subject: Initial Review of Notice of Intention to Commence Large Mining Operations,
I & P Investments, Green Peak Quarry, M/003/060, Box Elder County, Utah

Dear Mr. Pauletto:

The Division has completed our review of your draft Notice of Intention to Commence Large Mining Operations for the Green Peak Quarry, located in Box Elder County, Utah, which was received June 9, 2004. After reviewing the information, the Division has the following comments which will need to be addressed before tentative approval may be granted.

The comments are listed below under the applicable Minerals Rule heading. Please format your response in a similar fashion. **Please address only those items requested in the attached technical review. If possible, please send replacement pages of the original mining notice using redline and strikeout text, so we can see what changes have been made. After the notice is determined technically complete and we are prepared to issue final approval, we will ask that you send us two clean copies of the complete and corrected plan. Upon final approval of the permit, we will return one copy stamped "approved" for your records.** Please provide a response to this review by October 15, 2004.

The Division will suspend further review of the Green Peak Quarry Notice of Intention until your response to this letter is received. If you have any questions in this regard please contact me, or Lynn Kunzler of the Minerals Staff. If you wish to arrange a meeting to sit down and discuss this review, please contact us at your earliest convenience. Thank you for your cooperation in completing this permitting action.

Sincerely,

Daron R. Haddock
Permit Supervisor
Minerals Regulatory Program

DRH:LK:jb
Attachment: Review
cc: Mike Nelson, BLM
O:\M003-BoxElder\M0030060-GreenPeak\final\1stREV-06222004-.doc

REVIEW OF NOTICE OF INTENTION TO COMMENCE LARGE MINING OPERATIONS

**I & P Investments
Green Peak Quarry
M/003/060
September 15, 2004**

R647-4-105 - Maps, Drawings & Photographs

105.1 Topographic base map, boundaries, pre-act disturbance

Map 1- Quarry Map – shows the location of the quarry, growth medium, and waste dump locations but does not show the location of access to these areas. The plan states that the waste rock will be end dumped from the roadway but does not indicate which roadway. Please modify this map to show which roadway will be used to initiate waste dump. Also modify the map to show access to the growth medium and waste dump. Reclamation of these disturbances should also be included in the plan. This map should be enlarged sufficiently to show details of the site, a minimum scale of 1"=200'. Please show any roads to be constructed onsite on this map. Please include a map scale on this map. (DJ)

Map 2 – Access – It is not clear from this map where the access road to the site is. Please highlight the access road to the site on this map. (DJ)

105.3 Drawings or Cross Sections (slopes, roads, pads, etc.)

Attachments 2 & 3 are cross-sections that show the quarry surface after mining. Because ~30,000 cubic yards of waste material is projected to be placed on the quarry floor after mining, additional cross-sections need to be submitted which show the quarry surface after reclamation. (DJ)

The cross-sections included in the application indicate the disturbance during the two phases of the operation. The cross-sections should also include the final development of the existing small mine directly associated with this mine. (DJ)

R647-4-106 - Operation Plan

106.4 Nature of materials mined, waste and estimated tonnages

The earthwork computation sheet contained in the plan shows only material taken from phase 1 & 2 on the mining operation. Will there be any mining activity in the existing small mine area during this time? Any additional material generated by this operation should be included in these calculations. (DJ)

106.5 Existing soil types, location, amount

The plan needs to include information about the soil resources. At a minimum, the results of an order 3 soil survey need to be provided, along with basic chemistry analysis of the soils. This soil analysis needs to include: texture, pH, EC (conductivity), SAR, % organic matter, CEC (cation exchange capacity), total nitrogen, nitrate nitrogen, Phosphorus (as P_2O_5), and Potassium (as K_2O). (LK)

On page 5, 4th paragraph, it states that all available fines will be stockpiled, then tested at the commencement of reclamation to determine soil amendments needed. 'Fines' need to

be tested now to determine whether they are now, or with appropriate amendment(s), would be suitable for reclamation/revegetation. The testing (analysis) should include all the parameters listed above. (LK)

106.6 Plan for protecting & redepositing soils

The plan states that the growth medium pile will be stockpiled and seeded after completion to prevent erosion. Because the construction of this pile will be an on-going process, seeding should take place at least annually, not at completion. Please identify what species will be used to seed (and stabilize) the stockpile? (DJ & LK)

106.7 Existing vegetation - species and amount

Please provide the results of a vegetation survey, which includes total percent vegetation ground cover and a list of species that occur within and adjacent to the areas being disturbed. (LK)

R647-4-107 - Operation Practices

107.1 Public safety & welfare

107.1.14 Posting warning signs

Because the access road into the site is a single lane road, signs should be posted warning the public. (DJ)

107.3 Erosion control & sediment control

The plan states that the waste dump bench will be sloped to contain surface water. The top view of the waste pile shown on attachment 7 indicates that the dump will slope towards the face of the dump. Please explain how this slope configuration will contain surface water. (DJ)

The access road drainage will drain to natural drainages that do not exist according to the map. If culverts are needed or cross drains with riprap protection are to be installed please provide the locations and designs. (TM)

107.4 Deleterious material safely stored or removed

The plan states that containment around the fuel tanks will be sufficient to contain the capacity of these tanks. The containment around each fuel tank should be constructed to contain 110% of the capacity of the tank. The containment should be constructed of impervious material which will not allow the material captured to escape into the environment. (DJ)

107.5 Suitable soils removed & stored

The plan does not contain a commitment by the operator to harvest soil from the area to be impacted by the waste dump or future expansion. Please include a plan for these activities. (LK)

The plan states that a portion of the by-product material from the tumbler and trammel will be used for reclamation. Please indicate on the surface facilities map where this material will be stored. (DJ)

107.6 Concurrent reclamation

The plan does not discuss concurrent reclamation of areas no longer needed for operations, or the seeding cut and fill slopes associated with this operation to help control erosion and air quality. Please provide these plans, including species to be used for seeding. (LK)

R647-4-109 - Impact Assessment

109.3 Impacts on existing soils resources

Impacts to the soil resources, as described in the plan will be a total loss of this resource (no salvaging of soil resources). Please provide justification for this extent of impact to the soil resources. (LK)

109.5 Actions to mitigate any impacts

Please describe how approximately 1.25 inches of fines applied over the site will mitigate the loss of the soil resources (approximately 10 inches of topsoil)? (LK)

The plan states Utah State Historic Preservation Office's survey did not include the 1.7 acres of new disturbance for the waste pile. Will a survey of this area be completed before the construction of the waste pile is initiated? (DJ)

R647-4-110 - Reclamation Plan

110.1 Current & post mining land use

Please provide in the plan a description of the existing (pre-mine) land use and the proposed postmining land use for this area. (LK)

110.2 Roads, highwalls, slopes, drainages, pits, etc., reclaimed

The quantity survey sheet included in the plan does not appear to contain the acreage disturbed by the original small mine disturbance. Please include this acreage in this area. (DJ)

This sheet does not appear to contain any acreage computations for the area to be affected by the growth medium storage pile or the access road to this area. Please include these areas in these computations. (DJ)

The plan suggests that the waste pile may be left at angle of repose to allow a stand of junipers to screen a portion of the dump. In order to assure long-term stability of this feature, the slope angle of the dump should be reduced to a minimum of 3:1. (DJ)

110.5 Revegetation planting program

The operator has not provided a complete revegetation plan for all areas disturbed by this operation. This plan needs to include, at a minimum, a description of the final grading and stabilization measures, topsoil (plant growth media) replacement (including depth of replacement), seedbed preparation measures, seed mixture(s) to be used (including species and rate of seeding), timing of seeding efforts (late fall is preferred), a description of soil amendments and/or fertilizers to be used (including rate(s) of application), and mulching (include type of mulch and rate of application).

Note: it is suggested that commercial fertilizers not be used unless there is a significant deficiency of particular nutrients as demonstrated by the soil analysis. Mulch should only be used on areas where erosion potential is high. Attached is a recommended seed mix that may be used. The BLM has reviewed this mix and has found it to acceptable for this site. If you desire to modify or replace this mix with other species, it will require review and approval of DOGM and the BLM. (LK)

On page 2 of the plan it states that noxious weeds will be controlled . . . as directed by the BLM. Please note, weed control may also be directed by the DOGM as well as Box Elder County Weed Control Supervisor. (LK)

The plan does not contain a plan for the reclamation of the processing site. Please include plans for the reclamation of this area. (DJ)

A plan to rip and seed the top and slope of the waste dump should be included in the application. (DJ)

R647-4-111 - Reclamation Practices

111.5 Land capable of post mining land use

This section cannot be fully evaluated until we have a description of the pre- and postmining land use(s) (see comments under R647-4-110.1) and a complete reclamation/revegetation plan (see comments under R647-4-110.5). (LK)

111.6 All slopes regraded to stable configuration

The plan suggests that the waste pile may be left at angle of repose to allow a stand of junipers to screen a portion of the dump. In order to assure long-term stability of this feature, the slope angle should be reduced to a minimum of 3:1. (DJ)

111.12 Topsoil redistribution

Until comments under R647-4-106.5, 106.6 and 107.5 are addressed, this section cannot be evaluated. (LK)

Michael Pauletto
Page 5
Initial Review
M/003/060
September 15, 2004

R647-4-112 - Variance

No variances have been requested. However, if soil resources are not salvaged, a variance for this would need to be approved. Variance requests must include:

1. the rule(s) as to which a variance is being requested,
2. the variance requested and a description of the area that would be affected by the variance,
3. justification for the variance,
4. a description of alternative methods or measures to be utilized,
5. the variance request must demonstrate that the alternative method or measure proposed will be consistent with the Act. (LK)

R647-4-113 - Surety

No surety information was included with the application. Please submit a surety estimate for this application. (DJ)

Attachment: Seedmix

Michael Pauletto
Page 6
Initial Review
M/003/060
September 15, 2004

Recommended Seed Mix for
I & P Investments
Green Peak Quarry
M/003/060

Prepared by DOGM Sept. 14, 2004
(this mix was reviewed and okayed by the BLM)

<u>Common Name</u>	<u>Species Name</u>	<u>*Rate lbs/ac (PLS)</u>
'Vavilov' siberian wheatgrass	<u>Agropron sibericum 'vavilov'</u>	2.0
Bluebunch wheatgrass	<u>Agropyron spicatum</u>	2.0
Western wheatgrass	<u>Agropyron intermedium</u>	1.5
'Bozoiski' russian wildrye	<u>Elymus junceus 'Bozoiski'</u>	1.0
'Piute' orchard grass	<u>Dactylis glomerata 'piute'</u>	0.5
Basin Wildrye	<u>Elymus cinereus</u>	1.5
'Ladak' alfalfa	<u>Medicago sativa 'ladak'</u>	0.5
Lewis flax	<u>Linum lewisii</u>	0.5
Palmer penstemon	<u>Penstemon palmeri</u>	0.5
Small burnet	<u>Sanguisorba minor</u>	0.5
Wyoming big sagebrush	<u>Artemisia tridentata wyomingensis</u>	0.1
Western yarrow	<u>Achillea millifolia</u>	0.25
Immigrant' forage kochia	<u>Kochia prostrata 'immigrant'</u>	0.5
'Lassen' bitterbrush	<u>Purshia tridentata 'lassen'</u>	1.0
Total		12.35 lbs/ac

*Rate is recommended broadcast seeding methods.

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